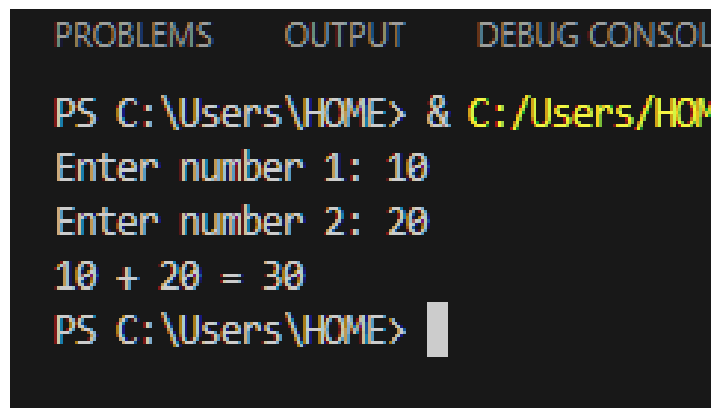


```
a = int(input("Enter number 1: "))  
b = int(input("Enter number 2: "))  
sum = a + b  
print(f"{a} + {b} = {sum}")
```

Output:



```
PROBLEMS    OUTPUT    DEBUG CONSOLE  
  
PS C:\Users\HOME> & C:/Users/HOM  
Enter number 1: 10  
Enter number 2: 20  
10 + 20 = 30  
PS C:\Users\HOME> 
```

```
n = int(input("Enter a number to calculate its factorial: "))
```

```
while n > 20 or n < 0:
```

```
n = int(input("Please enter a number between 0 and 20: "))
```

factorial = 1

```
for i in range(2, n+1, 1):
```

```
factorial *= i
```

```
print(f"Factorial of {n} is {factorial}\n{n}! = {factorial}")
```

Output:

```
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL    POWERSHELL
PS C:\Users\HOME> & C:/Users/HOME/AppData/Local/Programs/PowerShell/PowerShell.exe
Enter a number to calculate its factorial: 6
Factorial of 6 is 720
6! = 720
PS C:\Users\HOME>
```

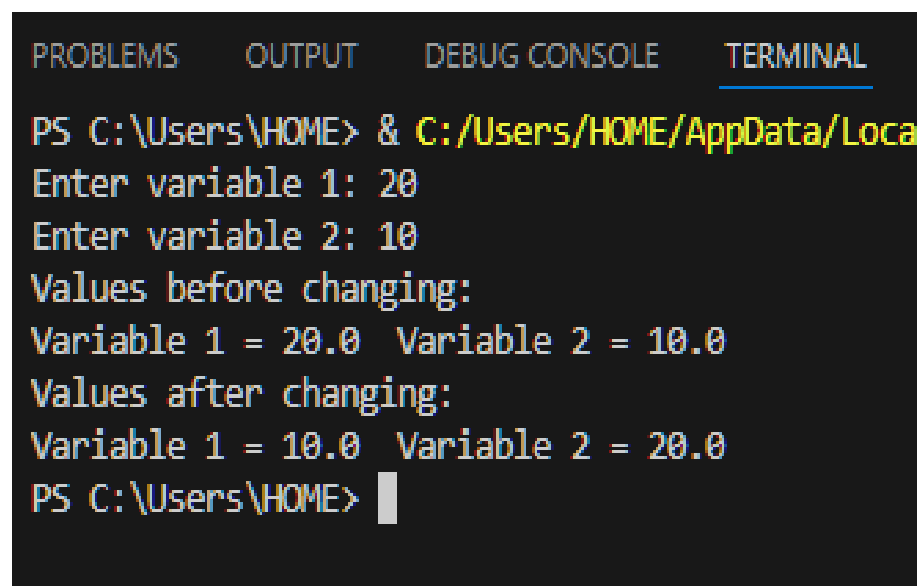
```
a = float(input("Enter variable 1: "))
b = float(input("Enter variable 2: "))

print(f"Values before changing:\nVariable 1 = {a} Variable 2 = {b}")

a,b = b,a

print(f"Values after changing:\nVariable 1 = {a} Variable 2 = {b}")
```

Output:



```
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL

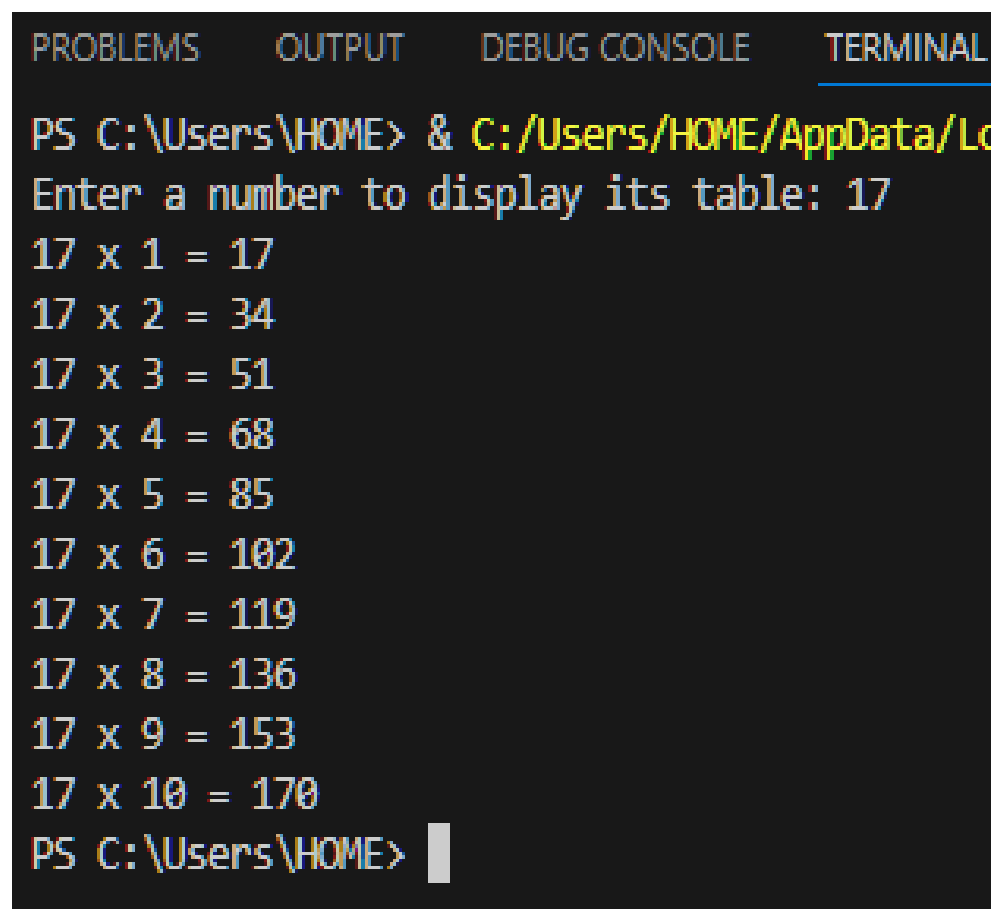
PS C:\Users\HOME> & C:/Users/HOME/AppData/Local/Programs/Python/Python39-64/Python.exe
Enter variable 1: 20
Enter variable 2: 10
Values before changing:
Variable 1 = 20.0 Variable 2 = 10.0
Values after changing:
Variable 1 = 10.0 Variable 2 = 20.0
PS C:\Users\HOME> 
```

```
n = int(input("Enter a number to display its table: "))
```

```
for i in range(1,11,1):
```

```
    print(f"{n} x {i} = {n*i}")
```

Output:



The screenshot shows a terminal window with a dark background and light-colored text. At the top, there are four tabs: "PROBLEMS", "OUTPUT", "DEBUG CONSOLE", and "TERMINAL", with "TERMINAL" being the active tab. The terminal content shows a PowerShell prompt "PS C:\Users\HOME>" followed by a command to run a Python script. The script prompts the user to "Enter a number to display its table:" and the user enters "17". The script then displays a multiplication table for 17, showing products from 17 x 1 to 17 x 10. The prompt "PS C:\Users\HOME>" is visible again at the bottom with a cursor.

```
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL

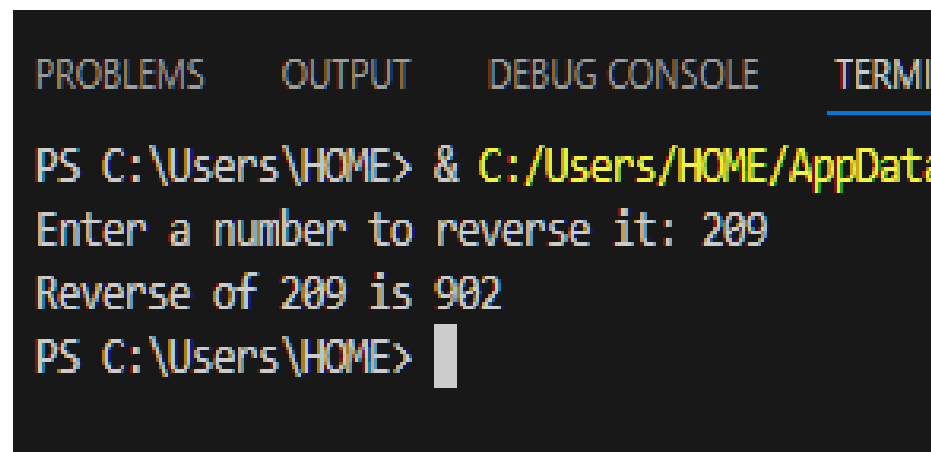
PS C:\Users\HOME> & C:/Users/HOME/AppData/Local/Programs/Python/Python39-64/Python.exe C:/Users/HOME/AppData/Local/Programs/Python/Python39-64/Scripts/python.exe C:/Users/HOME/AppData/Local/Programs/Python/Python39-64/Scripts/python.exe
Enter a number to display its table: 17
17 x 1 = 17
17 x 2 = 34
17 x 3 = 51
17 x 4 = 68
17 x 5 = 85
17 x 6 = 102
17 x 7 = 119
17 x 8 = 136
17 x 9 = 153
17 x 10 = 170
PS C:\Users\HOME> 
```

```
n = int(input("Enter a number to reverse it: "))
```

```
reverse = int(str(n)[::-1])
```

```
print(f"Reverse of {n} is {reverse}")
```

Output:



```
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL
PS C:\Users\HOME> & C:/Users/HOME/AppData/Local/Programs/Python/Python310/Python.exe
Enter a number to reverse it: 209
Reverse of 209 is 902
PS C:\Users\HOME> █
```

```
dhoni = int(input("Enter number of runs scored by Dhoni in Test 1: "))
dhoni += int(input("Enter number of runs scored by Dhoni in Test 2: "))
```

```
kohli = int(input("Enter number of runs scored by Kohli in Test 1: "))
kohli += int(input("Enter number of runs scored by Kohli in Test 2: "))
```

```
sachin = int(input("Enter number of runs scored by Sachin in Test 1: "))
sachin += int(input("Enter number of runs scored by Sachin in Test 2: "))
```

```
print(f"\nDhoni total runs: {dhoni}\nKohli total runs: {kohli}\nSachin total runs: {sachin}\n")
```

```
if dhoni > kohli and dhoni > sachin:
```

```
    print(f"Orange Cap Winner: Dhoni\nRuns: {dhoni}")
```

```
elif kohli > dhoni and kohli > sachin:
```

```
    print(f"Orange Cap Winner: Kohli\nRuns: {kohli}")
```

```
elif sachin > dhoni and sachin > kohli:
```

```
    print(f"Orange Cap Winner: Sachin\nRuns: {sachin}")
```

```
elif kohli == dhoni and dhoni != sachin:
```

```
    print(f"Tie Between Dhoni and Kohli\nTheir runs: {dhoni}")
```

```
elif sachin == dhoni and dhoni != kohli:
```

```
    print(f"Tie Between Dhoni and Sachin\nTheir runs: {dhoni}")
```

```
elif kohli == sachin and dhoni != kohli:
```

```
    print(f"Tie Between Virat and Sachin\nTheir runs: {kohli}")
```

```
else:
```

```
    print(f"All Players scored equal runs\nTheir runs: {dhoni}")
```

Output:

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

PS C:\Users\HOME> & C:/Users/HOME/AppData/Local/Programs/
Enter number of runs scored by Dhoni in Test 1: 20
Enter number of runs scored by Dhoni in Test 2: 57
Enter number of runs scored by Kohli in Test 1: 59
Enter number of runs scored by Kohli in Test 2: 68
Enter number of runs scored by Sachin in Test 1: 45
Enter number of runs scored by Sachin in Test 2: 36

Dhoni total runs: 77
Kohli total runs: 127
Sachin total runs: 81

Orange Cap Winner: Kohli
Runs: 127
PS C:\Users\HOME> |
```

```
def count_span(stocks ,spans, days):

    for i in range(days):
        span = 1
        j = i-1

        while(j >=0 and stocks[i] > stocks[j]):
            span += 1
            j -= 1

        spans.append(span)

    return spans

days = 8

stocks = [60, 70, 80, 100, 90, 75, 80, 120]

spans = []

count_span(stocks, spans, days)

print(stocks)
print("The span of the stock prices is: ")
print(spans)
```


Output:

```
PS C:\Users\HOME> & C:/Users/HOME/AppData/Local/Programs/Python/Python39-32/Scripts/python.exe C:/Users/HOME/AppData/Local/Programs/Python/Python39-32/Scripts/stock_prices.py [60, 70, 80, 100, 90, 75, 80, 120]
The span of the stock prices is:
[1, 2, 3, 4, 1, 1, 2, 8]
PS C:\Users\HOME>
```